

Phase Identification

Quickly and accurately —
anytime, anywhere

Stop guessing about phasing!
Eliminate safety hazards while saving
time and money.



Benefits

- Get absolute phase ID and phase angle on entire systems
- Balance loads to minimize line loss
- Achieve correct phasing for system mapping
- Ensure new substation connections are phase correct
- Export results for use in your GIS system
- Works on overhead and underground conductors
- Tests without de-energizing power lines
- Works on 120V to 500kV systems
- Various communication including Wifi, 4G, Hotspot

How it works

Using GPS technology, the Phase ID9 continuously measures voltage phase angles at both the Field and Reference Units, compares the angles over a phone connection and displays the results on the Field Unit. Where cellular coverage is not available, GPS holdover can be up to 90 minutes. The Field Unit can store readings until cellular coverage is reached, then compares its readings with the Reference Unit for Phase ID.


ARES INSTRUMENTS



ARES INSTRUMENTS LLC



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“The ID9 Phase tracker consistently saves us time and money. Whether we’re system mapping, balancing loads or working on substation connections, we depend upon the ID9 for accurate phase identification.”

— David Vetter, NV Energy

Principles of Operation



ID9 Reference Unit

- Two reference inputs
- 99 head sets to synchronize
- Communicates with Field Unit via cellular network; no phone line needed; external GPS connection up to 30 meters
- Connects to 120 V AC & 220V wall outlet or screw terminals (flying leads)
- Synchronizes voltage phase with GPS time
- Sends results to Field Unit on demand
- Retains one month of data
- Rack-mount or portable units available
- Ethernet & GPS ports



ID9 Field Unit

Available in Standard or Advanced*

- Synchronizes phase with GPS time
- Compares phase reading with Reference Unit to determine phase and phase angle
- Displays data on easy-to-read color 6" LCD touchscreen
- Easy to work with gloves
- Stores and exports up to 1,000 readings
- Internal phase compensation
- Graphical & numerical results display
- IP-67 Protection

* Advanced unit uses cesium clock to maintain timing when GPS signal is lost indoors or underground up to 90 minutes

ID9 Non-Contact Sensor

- Acquires phase measurements without directly touching energized equipment
- Phase on secondary networks where direct contact is prohibited
- Up to 500kV non-contact
- IP-67 Protection



ID9 Hotstick Unit

- Probes tips includes: Hook, Needle & VPIS
- 120V to 500kV voltages range
- $\pm 1^\circ$ Phasing resolution
- Connect to every universal hotsticks
- Works on live OH conductor, UG elbows or test points, bus bar and any low-voltage connections
- Removable sensor box and test lead facilitate low-voltage phasing
- Up to 36kV direct contact voltage
- Up to 45 hrs of continuous phasing
- CAT III 1000V, CAT IV 600V
- Bluetooth connection to Field Unit
- Rechargeable batteries



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